

Abstract

Mobile units in a multicarrier, multidimensional communications system can assess
5 their own channel coherence time attributes (base stations can also access such
dynamics for mobile units as well). This information is utilized (either by the mobile
unit itself or by an infrastructure component such as a base site) to determine a level
of trustworthiness for other channel quality data as might be measured by the mobile
10 unit. Different modulation and coding schemes, along with responsive frequency and
time diversity resource allocations, are adaptively selected as a function of this level
of trustworthiness.

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